

**FIGURE 1**

5	TNVs	<u>ATGGGGTTTGGGCTGAGCTGGGTTTTCTCGTTGCTCTTTTAAGA</u>
	germline	Q V Q L V E S G G G V CAGGTGCAGCTGGTGGAGTCTGGGGGAGGCGTG
	TNVs	GGTGTCCAGTGT.....
10	TNV148 (B)	GGTGTCCAGTGT.....A.....
	germline	V Q P G R S L R L S C A A S G GTCCAGCCTGGGAGGTCCCTGAGACTCTCCTGTGCAGCCTCTGGA
	TNVs	.....
15		
	germline	F T F S <u>S Y A M H</u> W V R Q A P TTCACCTTCAGTAGCTATGCTATGCACTGGGTCCGCCAGGCTCCA
	TNV14,15	.....
20	TNV148 (B)	....T.....
	TNV196	.....C.....
	germline	G K G L E W V A <u>V I S Y D G S</u> GGCAAGGGGCTGGAGTGGGTGGCAGTTATATCATATGATGGAAGC
25	TNV14	.....A....C.T.....T
	TNV15	.....T.....T.....T
	TNV148 (B)	.....C.....T....G.....
	TNV196	.....T.....
	germline	<u>N K Y Y A D S V K G</u> R F T I S AATAAATACTACGCAGACTCCGTGAAGGGCCGATTCACCATCTCC
30	TNV14	.GC...A.G....G.....A.....
	TNV15	..C...A.G.....C.....
35	TNV148 (B)	.....A.G.....
	TNV196	.....A.G.C.....G.....
40		

FIGURE 2A

		R D N S K N T L Y L Q M N S L
	germline	AGAGACAATTCCAAGAACACGCTGTATCTGCAAATGAACAGCCTG
	TNV14	.....
	TNV15	.....G.....
5	TNV148	.....C.....
	TNV148B	.....
	TNV196	.....T.....
10		R A E D T A V Y Y C A R
	germline	AGAGCTGAGGACACGGCTGTGTATTACTGTGCGAGA
	TNV14,15	.....GATCGAGGT
	TNV148 (B)	.....A
	TNV196	.....T.....
15		
		<u>Y Y Y Y Y G M D V W</u>
	germline	TACTACTACTACTACGGTATGGACGTCTGG
	TNV14	
20	ATATCAGCAGGTGGAA.....	
	TNV15	
	G.C.....A.T..T.....	
	TNV148 (B)	...G.....A.....
	TNV196	..TGG.....A.....
25		
		G Q G T T V T V S S
	germline	GGGCAAGGGACCACGGTCACCGTCTCCTCAG
	TNV14	..C.....
30	TNV15	..C.....
	TNV148 (B)	..C.....
	TNV196	..C..G.....
35		
40		

FIGURE 2B

TNVs ATGGAAGCCCCAGCTCAGCTTCTCTTCCTCCTGCTACTCTGGCTC  
  
 5 germline E I V L T Q S P A T  
 TNVs GAAATTGTGTTGACACAGTCTCCAGCCACC  
 CCAGATACCACCGGA.....  
  
 10 germline L S L S P G E R A T L S C R A  
 TNVs CTGTCTTTGTCTCCAGGGGAAAGAGCCACCCTCTCCTGCAGGGCC  
 .....  
  
 15 germline S Q S V S S Y L A W Y Q Q K P  
 TNV14,15 AGTCAGAGTGTTAGCAGCTACTTAGCCTGGTACCAACAGAAACCT  
 TNV148,196 .....  
 .....TA.....  
  
 20 germline G Q A P R L L I Y D A S N R A  
 TNVs GGCCAGGCTCCCAGGCTCCTCATCTATGATGCATCCAACAGGGCC  
 .....  
  
 25 germline T G I P A R F S G S G S G T D  
 TNVs ACTGGCATCCCAGCCAGGTTCA GTGGCAGTGGGTCTGGGACAGAC  
 .....  
  
 30 germline F T L T I S S L E P E D F A V  
 TNVs TTCACTCTCACCATCAGCAGCCTAGAGCCTGAAGATTTTGCAGTT  
 .....  
  
 35 Germline Y Y C Q Q R S N W P P F T F G  
 TNVs TATTACTGTCAGCAGCGTAGCAACTGGCCTCCATTCACTTTCGGC  
 .....A.....  
  
 40 germline P G T K V D I K R  
 TNVs CCTGGGACCAAAGTGGATATCAAACGT  
 .....  
  
 45

FIGURE 3

germline MGFGLSWVFLVALLRGVQC **signal**  
 TNVs .....

5 germline QVQLVESGGGVVQPGRSLRLSCAASGFTFS **FR1**  
 TNVs .....  
 TNV148 (B) .....I..

10 germline SYAMH **CDR1**  
 TNVs .....

15 germline WVRQAPGKGLEWVA **FR2**  
 TNVs .....  
 TNV148 (B) .....N.....

20 germline VISYDGSNKYYADSVKG **CDR2**  
 TNV14 I.L....S.K.....D  
 TNV15 F.L.....K.....  
 TNV148 (B) FM.....K.....  
 TNV196 F.....KS.....

25 germline RFTISRDN SKNTLYLQMNSLRAEDTAVYYCAR **FR3**  
 TNV14 .....  
 TNV15 .....A.....  
 TNV148 .....P.....  
 TNV148B .....  
 TNV196 ...V.....F.....F....

30 germline -----Y YYYYGMDV **CDR3**  
 TNV14 DRGISAGGN.....  
 TNV15 ...V....N.....  
 TNV148 (B) ....A...N.....  
 TNV196 ....G...N.....

35  
 40 germline WGQGTTVTVSS **J6**  
 TNVs .....

FIGURE 4

	TNVs	MEAPAQLLFLLLLWLPDTTG	signal
5	germline TNVs	EIVLTQSPATLSLSPGERATLSC .....	FR1
10	germline TNV14 TNV15 TNV148 (B) TNV196	RASQSVSSYLA ..... ..... .....Y..... .....Y.....	CDR1
15	germline TNVs	WYQQKPGQAPRLLIY .....	FR2
20	germline TNVs	DASNRAT .....	CDR2
25	germline TNVs	GIPARFSGSGSGTDFTLTISSLEPEDFAVYYC .....	FR3
30	germline TNVs	QQRSNWPPFT .....	CDR3
35	germline TNVs	FGPGTKVDIK .....	J3

FIGURE 5

5

10

15

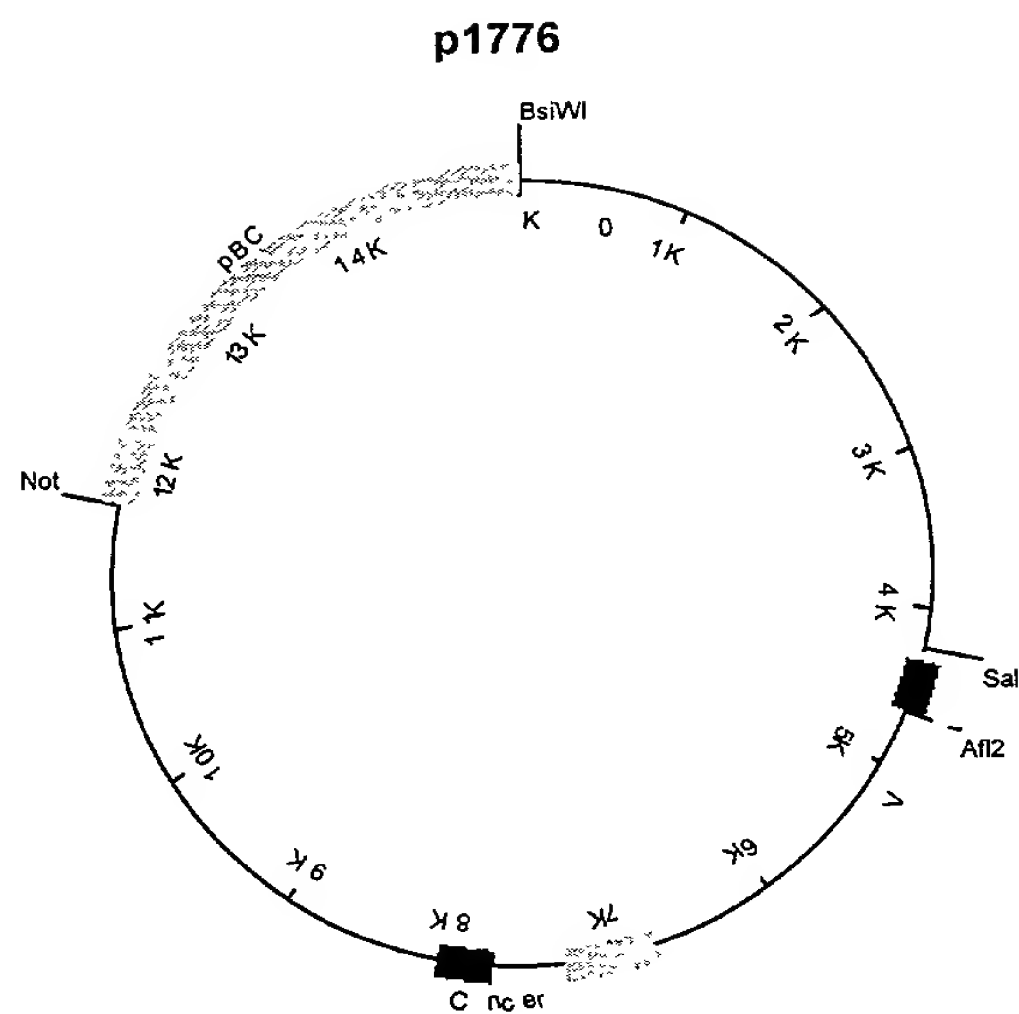
20

25

30

35

40



**FIGURE 6**

10

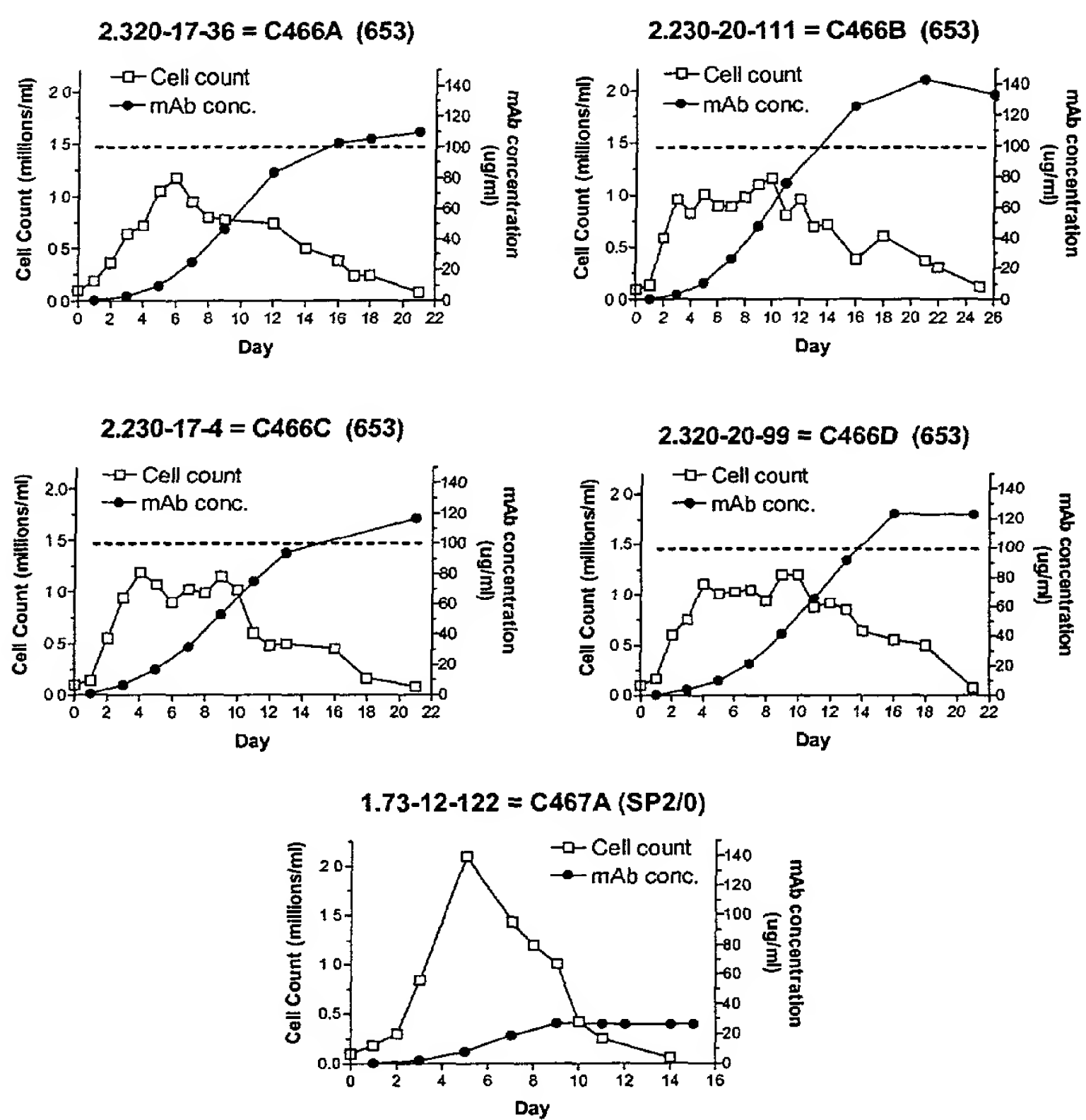


FIGURE 7

15

20

25



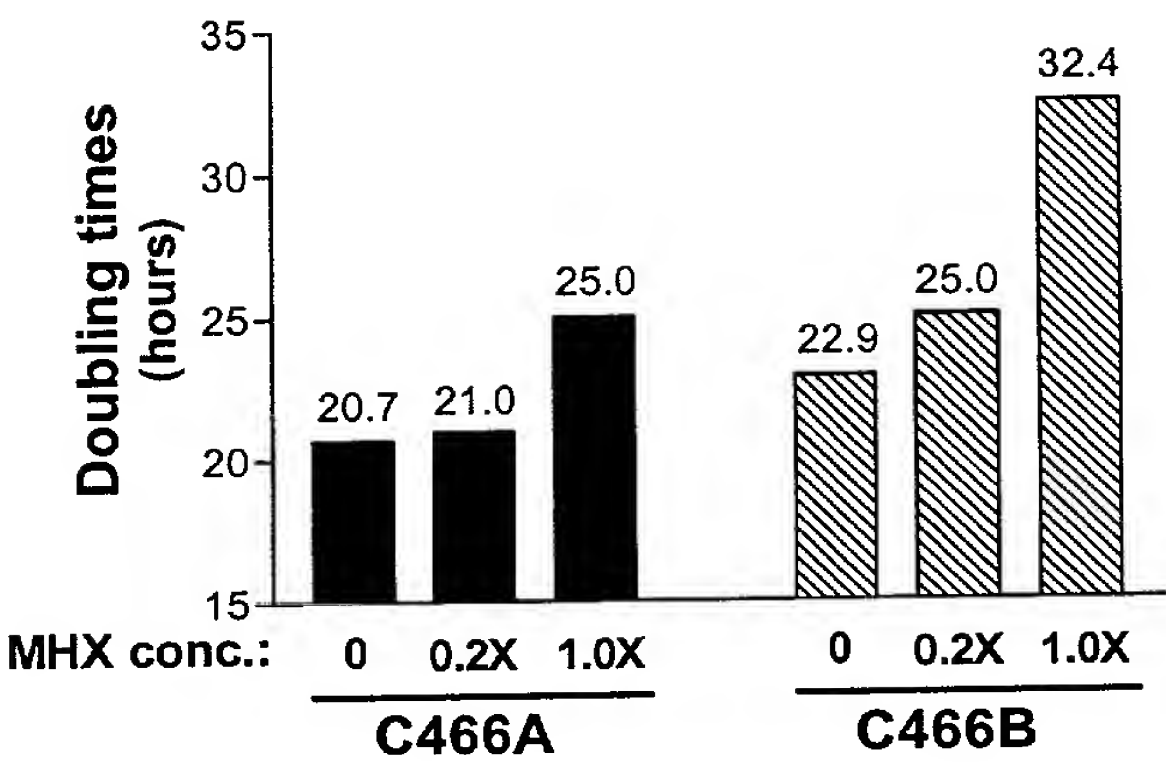
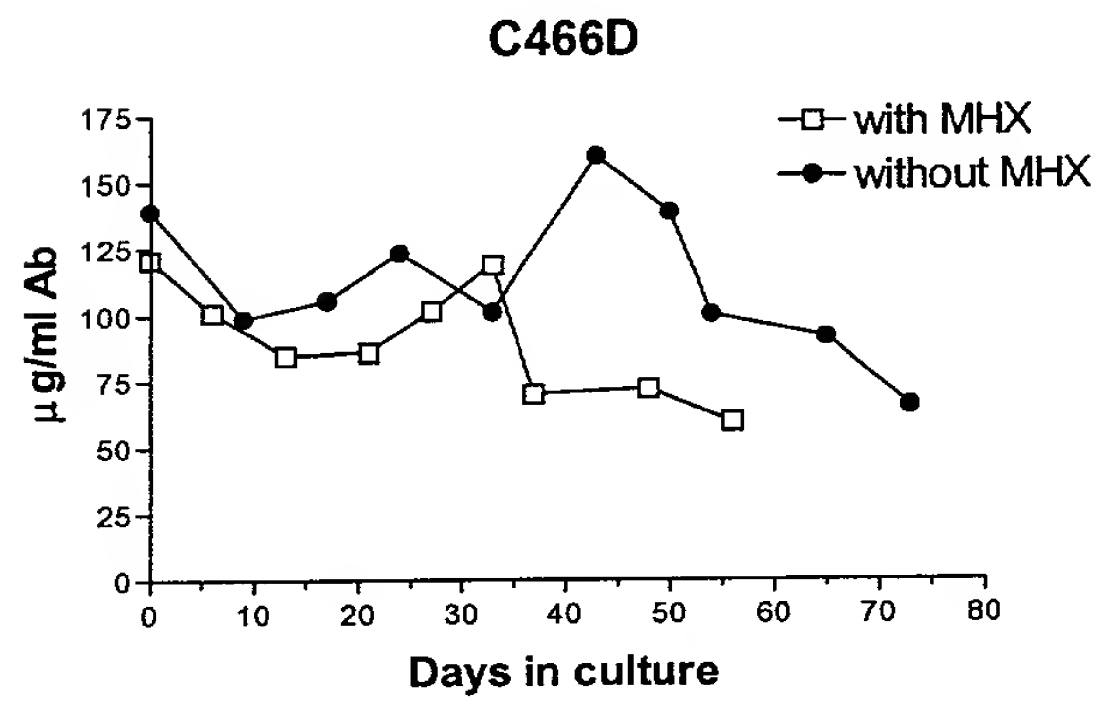
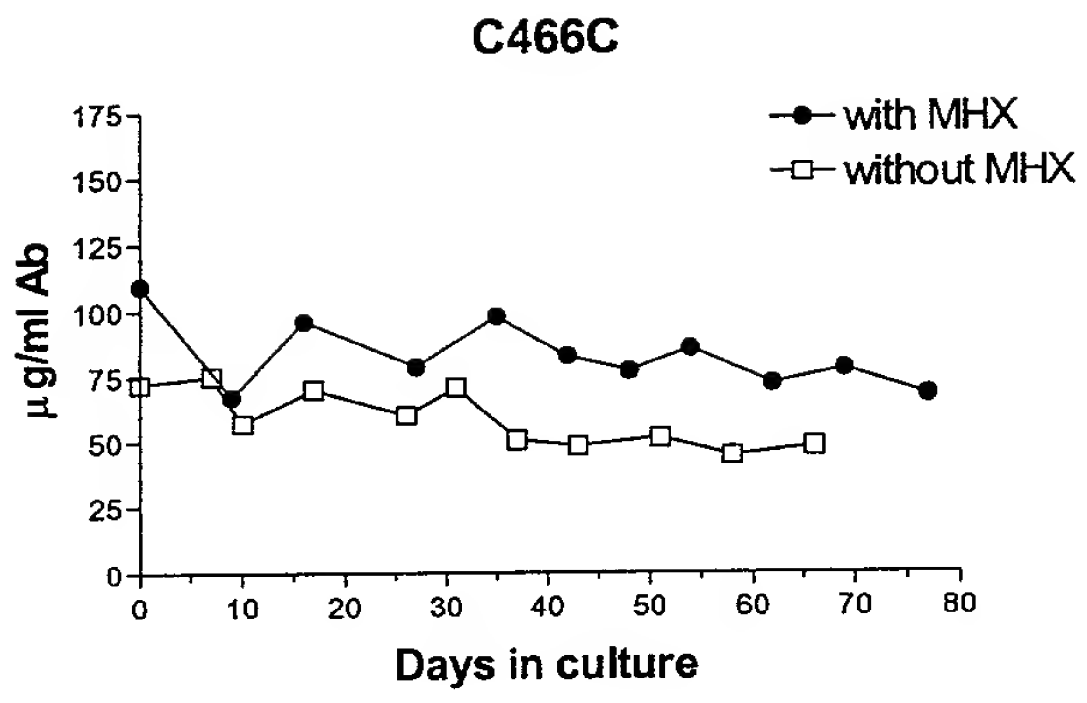


FIGURE 8



**FIGURE 9**

Body Weights  
Change from baseline

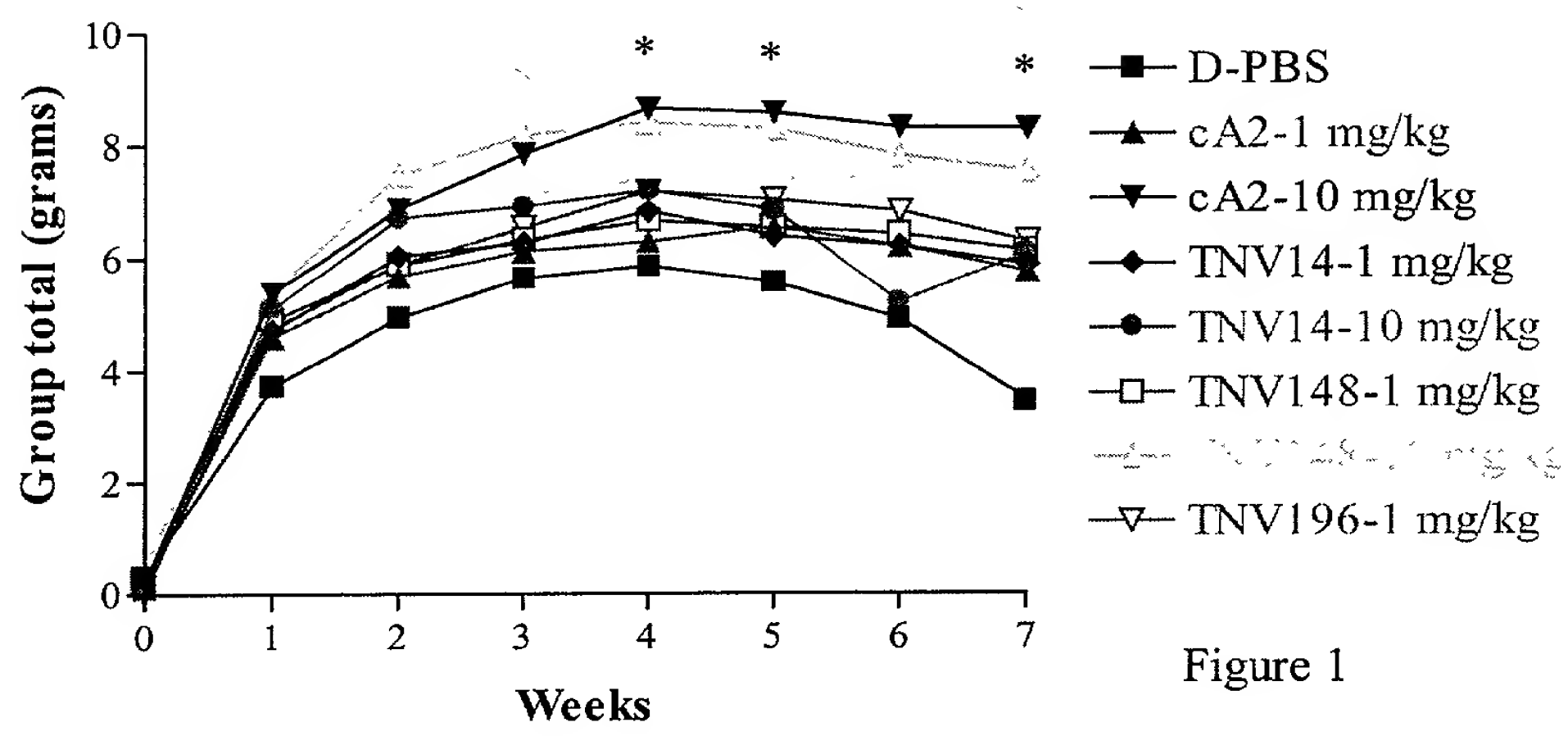
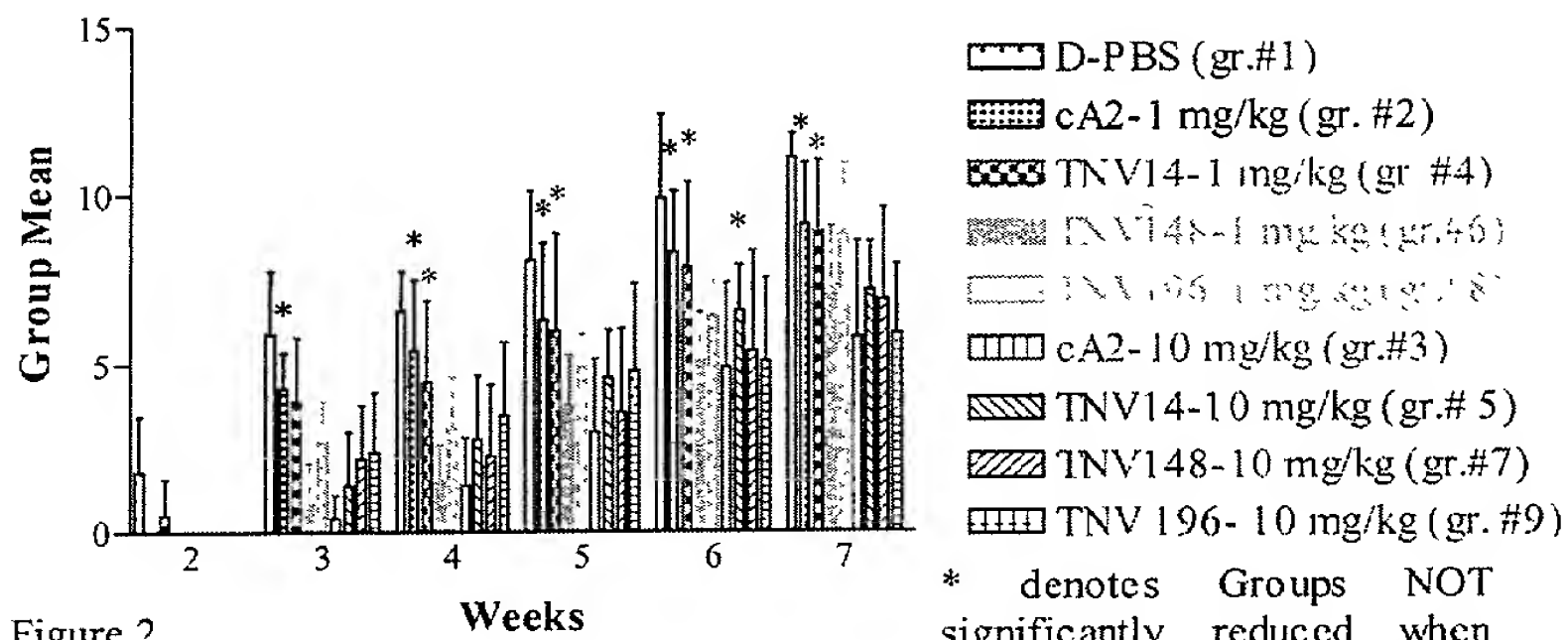


Figure 1

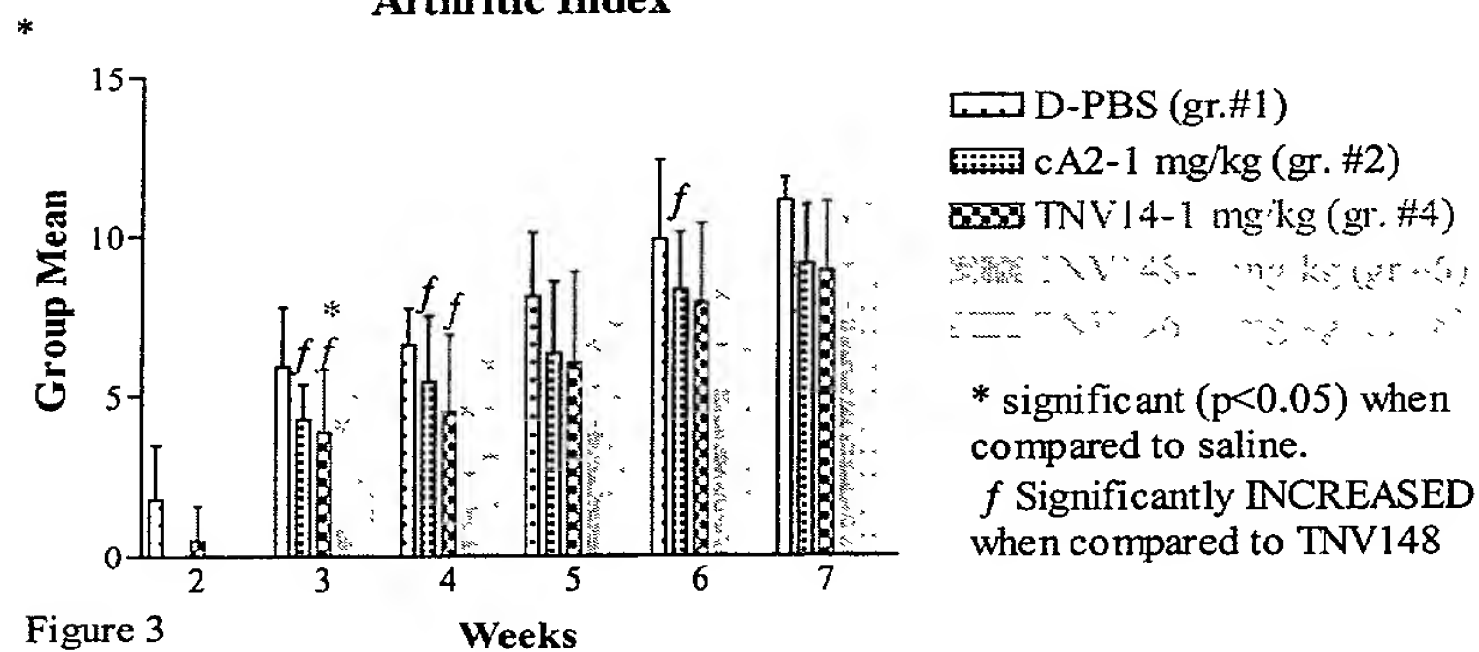
FIGURE 10

# Arthritic Index



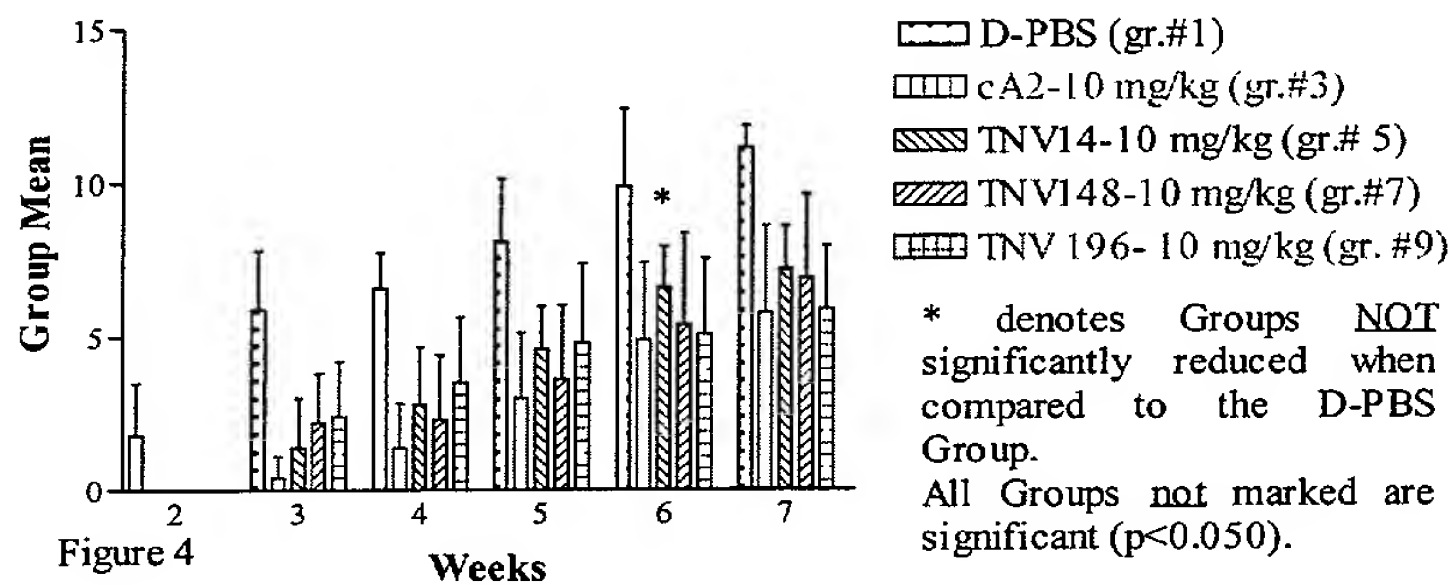
## FIGURE 11A

### Arthritic Index



## FIGURE 11B

### Arthritic Index



## FIGURE 11C

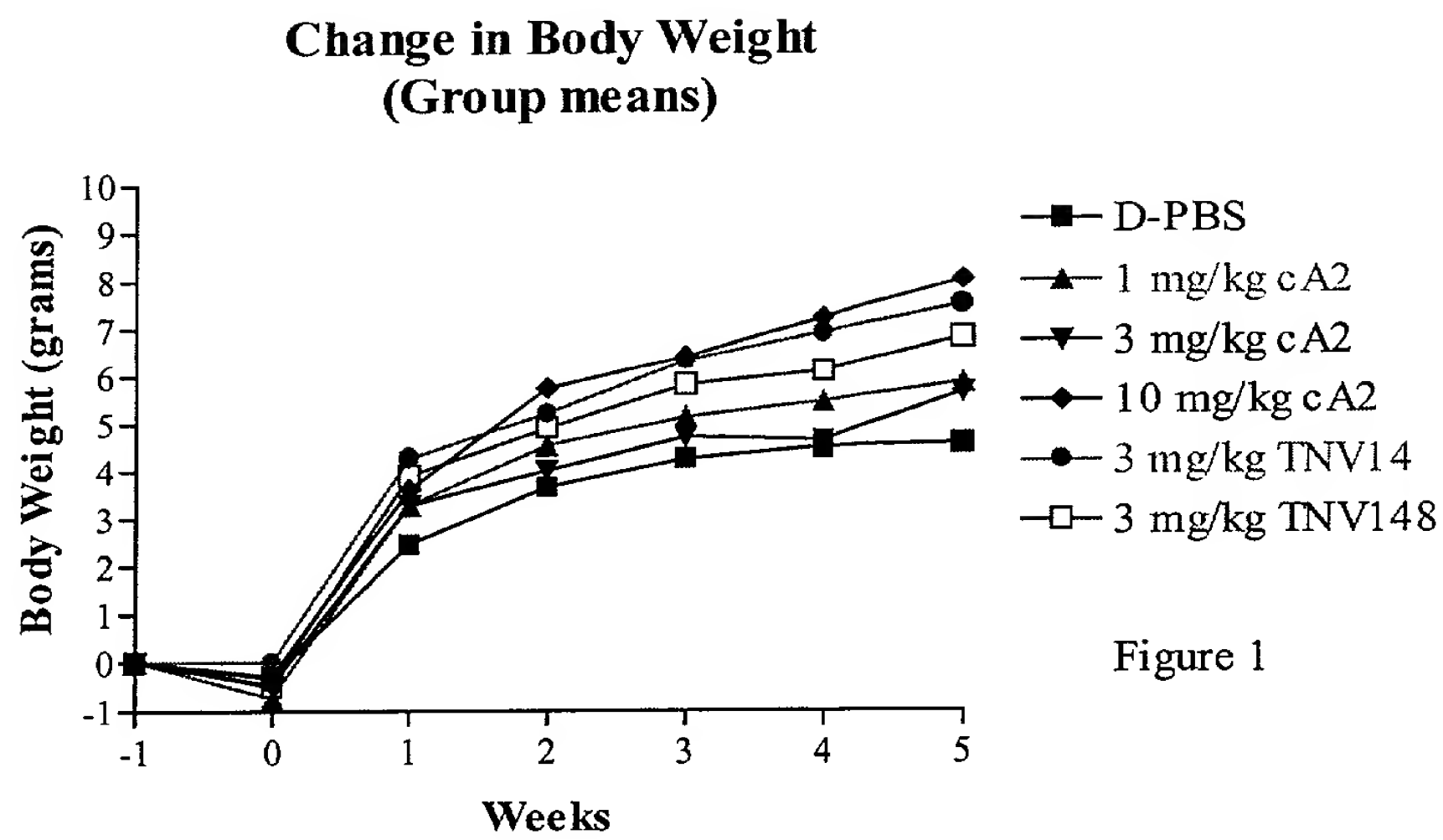


Figure 1

FIGURE 12

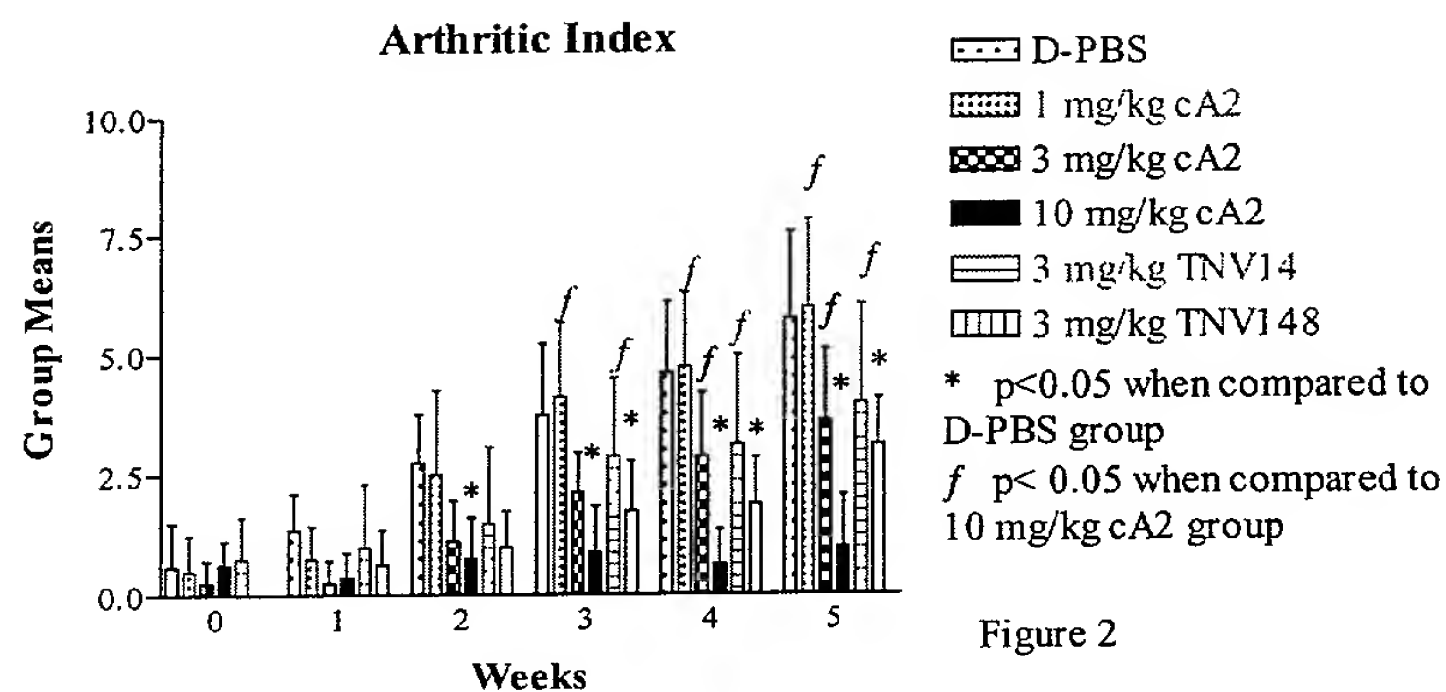


Figure 2

## FIGURE 13A

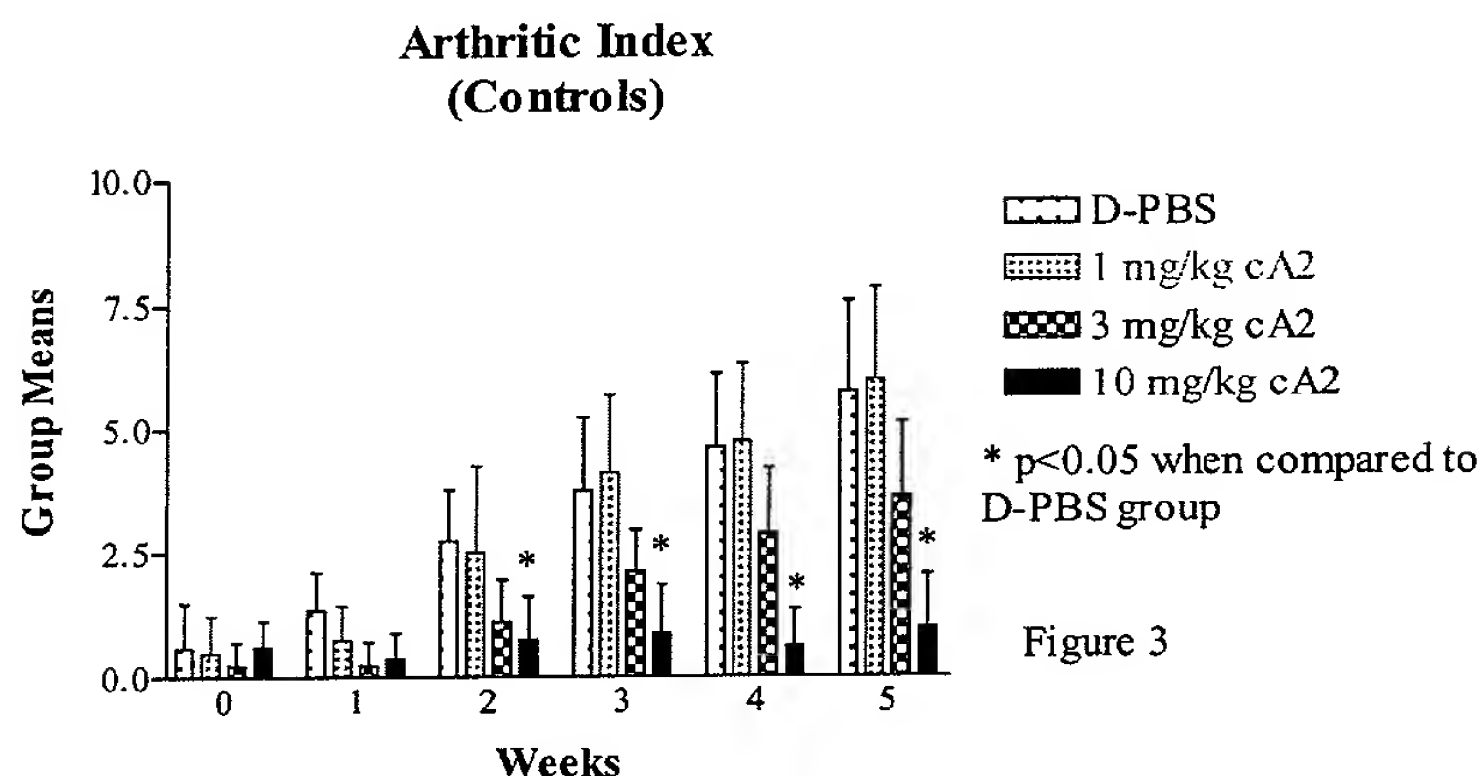


Figure 3

## FIGURE 13B

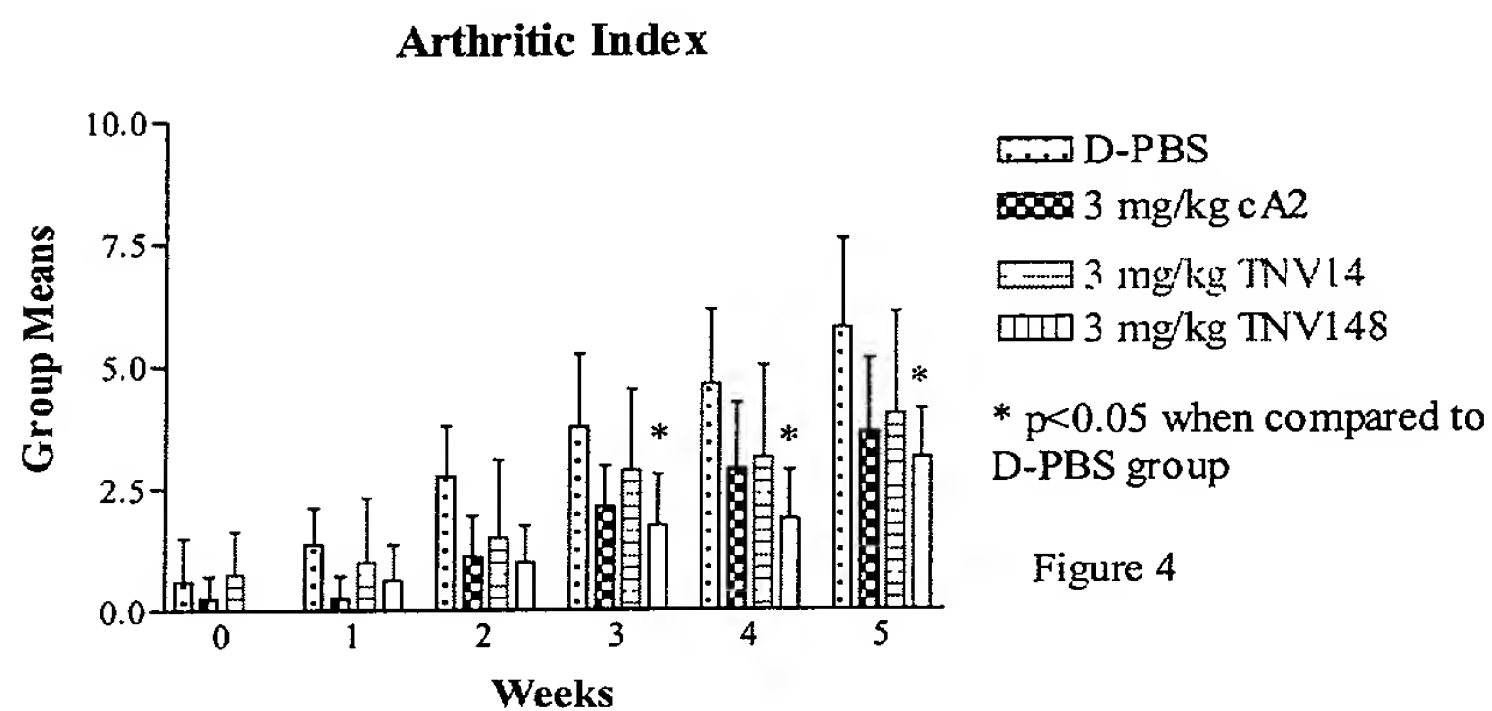


Figure 4

## FIGURE 13C

Change in Body Weight

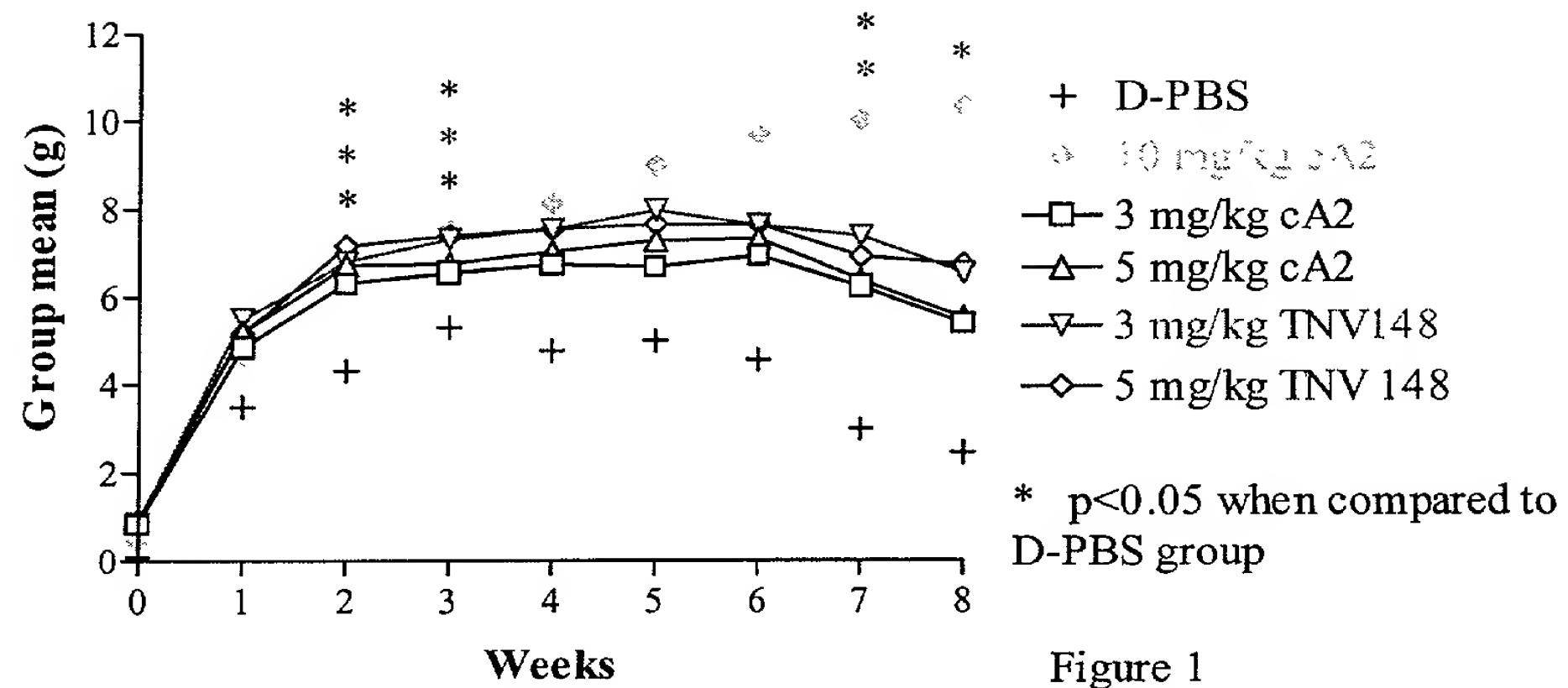


Figure 1

FIGURE 14

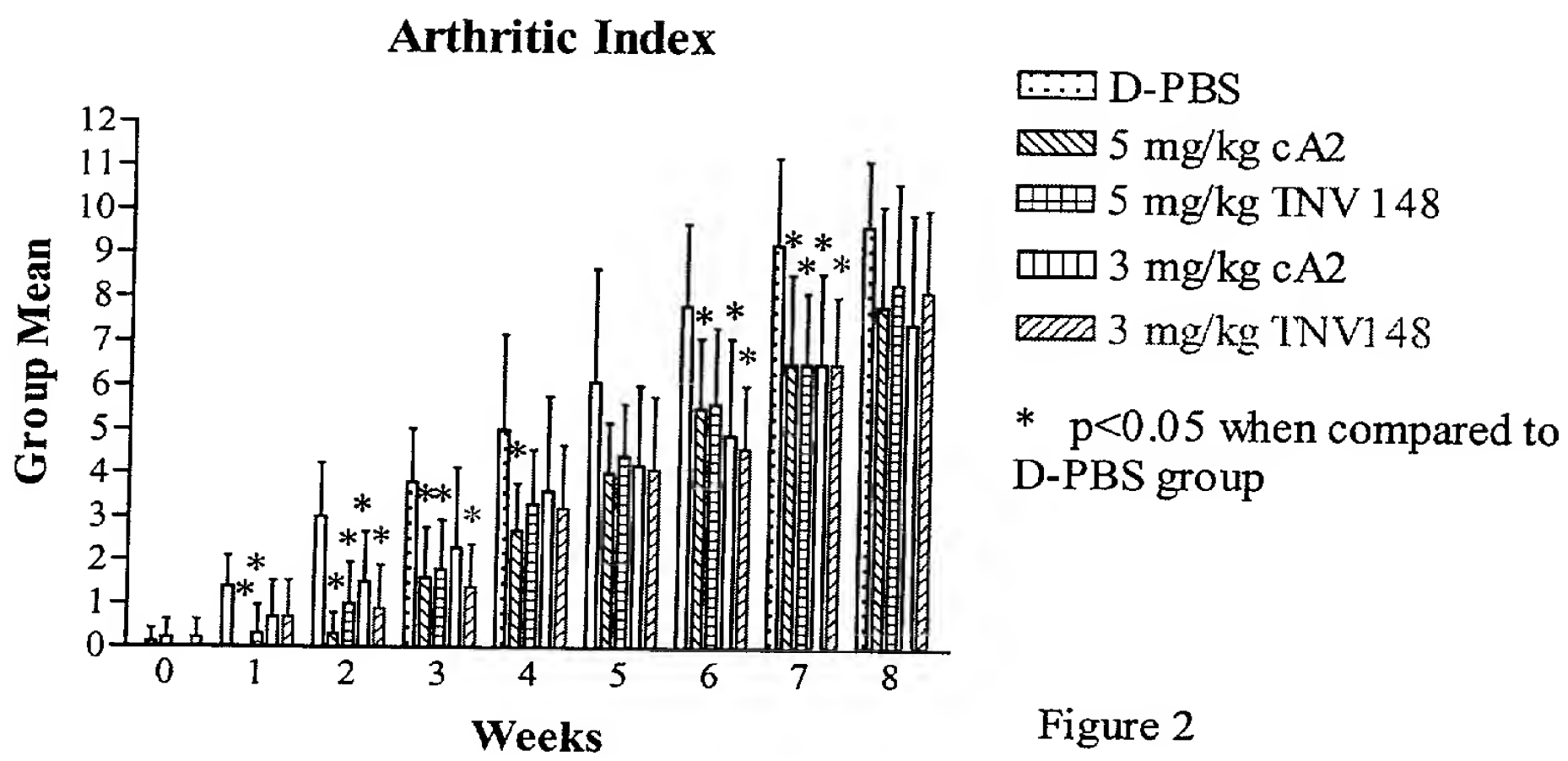


Figure 2

**FIGURE 15**



Change in Body Weight

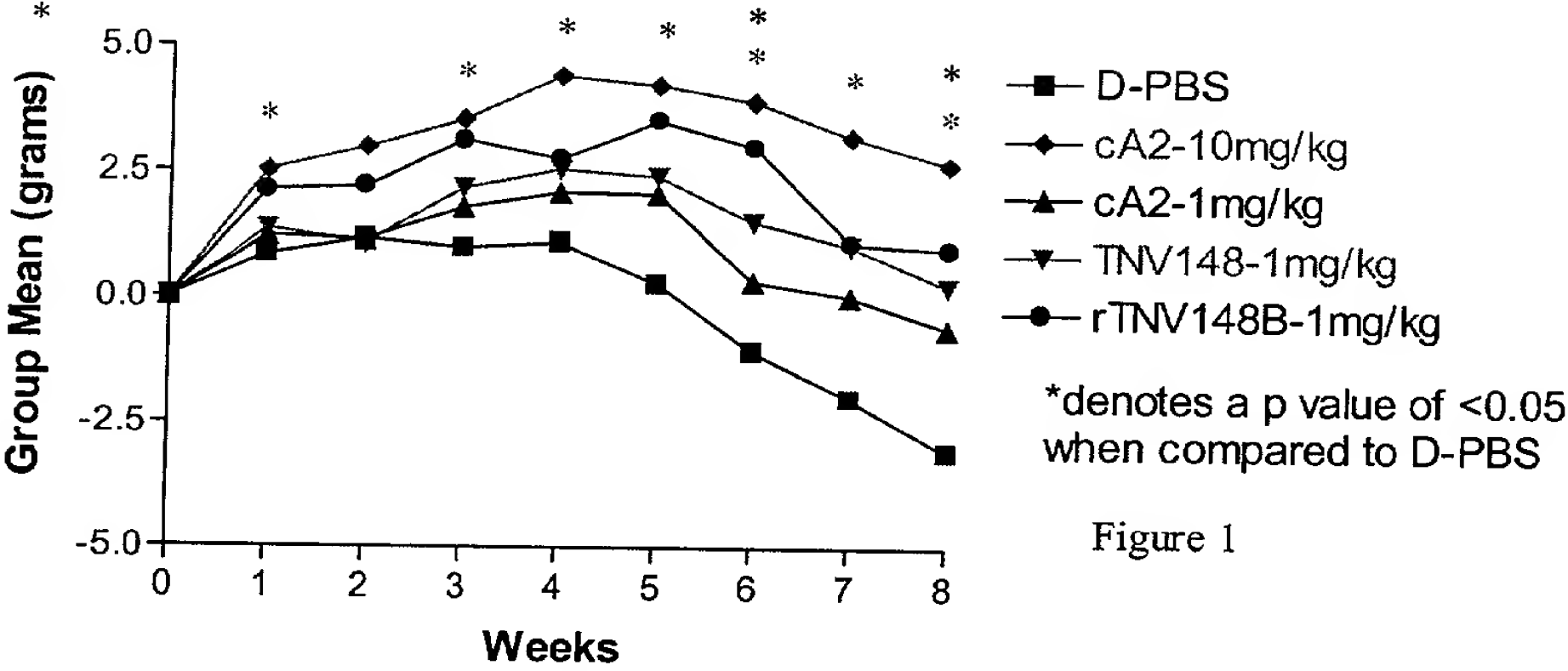


Figure 1

FIGURE 16

# Arthritic Index

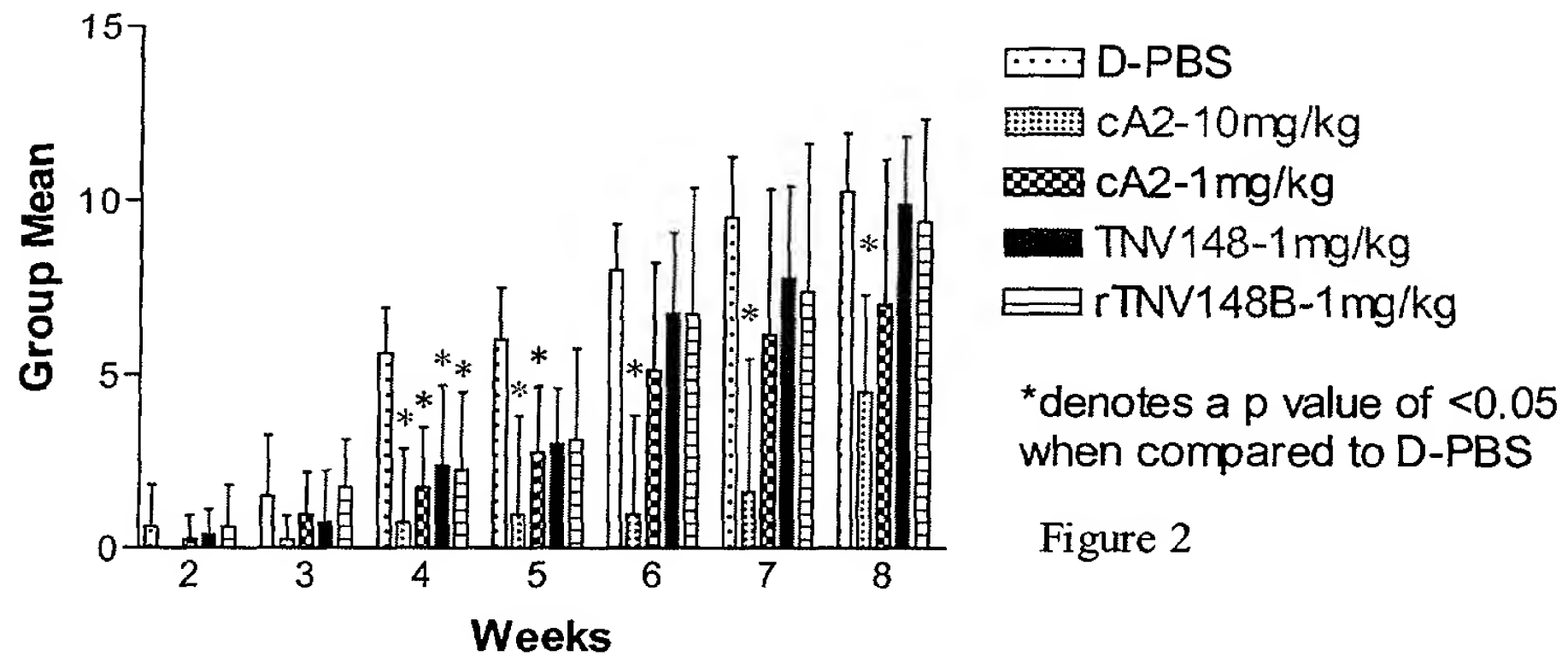


Figure 2

FIGURE 17